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(30) Priority:	09.03.88 JP 63 53805	(71) Applicant: SHOWA SHELL SEKIY
(43) Date of application publication:	21.12.89	(72) Inventor: SUZUKI GIICHI HAGIWARA TAKASHI NUMAZAWA KOICHI
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**(54) DIOXANE-BASED
LIQUID CRYSTAL
SUBSTANCE**

(57) Abstract:

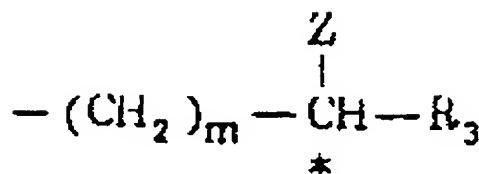
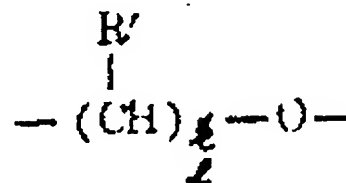
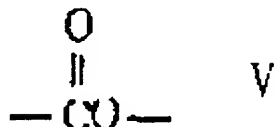
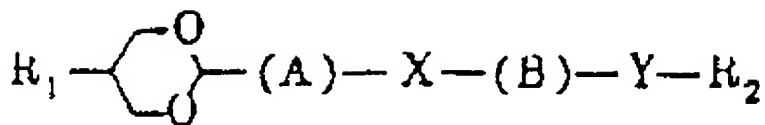
NEW MATERIAL: A dioxane-based liquid crystal substance, expressed by formula I [R1 is 1-20C alkyl, alkoxy, alkyloxycarbonyl or alkylcarbonyloxy; (A) is formula II, III, IV, etc.; X is formula V, VI, etc.; R' is H or methyl; l is 1-6] (B) is formula II, III, etc.; Y is formula V, -O-, -S-, -CH₂O-, etc.; R₂ is formula VII, etc.; R₃ is 1-20C alkyl, aralkyl, etc.; Z is CF₃, C₂F₅, CHF₂, etc.; m is 2-20].

EXAMPLE: 4'-(1-Trifluoromethylnonyloxycarbonyl)phenyl (R)-(+)-4-(5-n-benzyl- trans-1,3-dioxan-2-yl)benzoate.

USE: Useful as a liquid crystal component in liquid crystal display, optical shutters, etc., and for application to electrooptical elements, etc.

PREPARATION: For example, ethyl malonate is reacted with a sodium alcoholate, etc., to provide a compound expressed by formula VIII, which is used as a raw material and passed through several steps to afford the compound expressed by formula I.

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VII

